

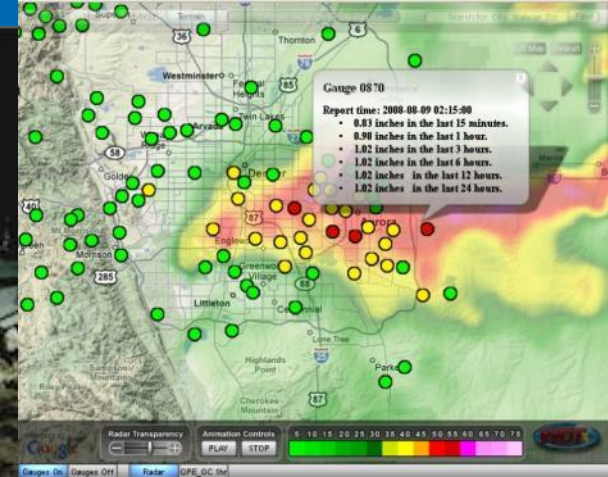
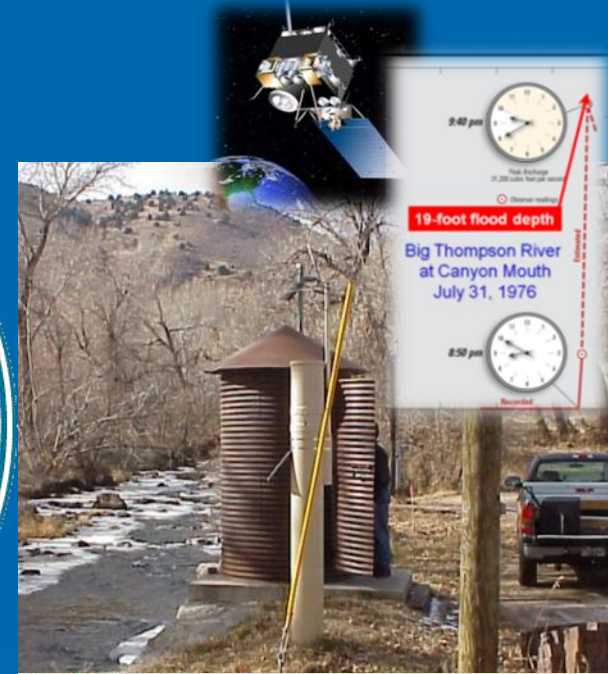
Hydrologic Warning Systems Overview

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National Hydrologic Warning Council**

Hydrologic Warning Systems
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www.hydrologicwarning.org



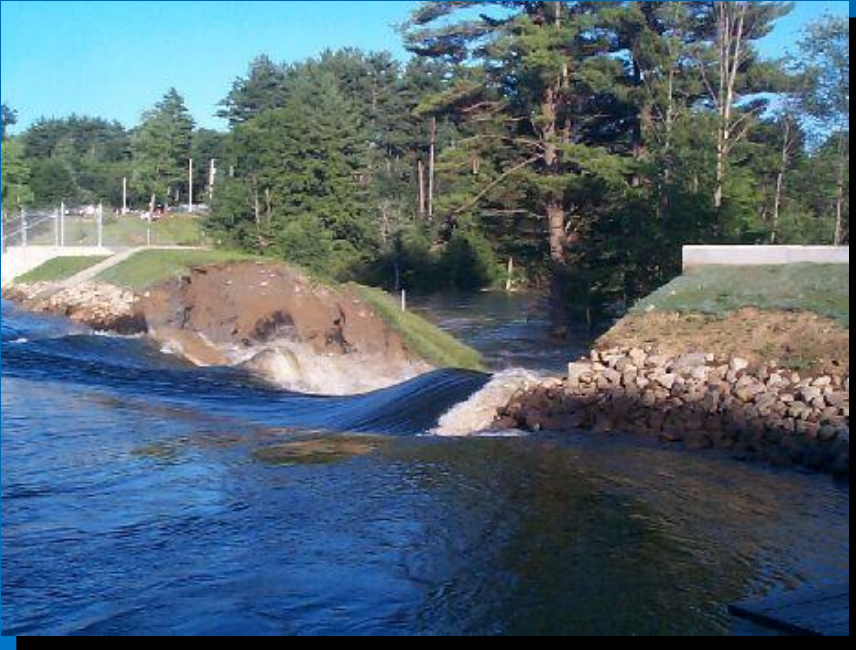
Hydrologic Warning Systems

Today's Focus



- What is a HWS, and what can it do for you?
- What does a future operator of a HWS need to know?

Hydrologic Warning Systems Challenges



- What's going on when too much water falls on your area, or flows into it?
- What happens when nature overwhelms our living space?
- What happens when what we build breaks?

Hydrologic Warning Systems

Function/Benefits

- A HWS is not a substitute for floodplain management and control structures
- Includes components that inform us so we can warn others
- Offers cost-effective solutions



Hydrologic Warning Systems Components

- Observing systems
- Data communications
- Diagnostic/predictive models
- Warning systems
- Action plans
- Preparedness plans



Hydrologic Warning Systems Design Considerations

- Get expert help
- Decide what to measure and how to share it
- Consider alternatives
- Focus on critical sites
- Optimize design
- Include additional data (e.g., radar)



Hydrologic Warning Systems

Operational Factors

- System must be located, installed, and maintained properly
- Managers and technicians all need training
- Operating budgets are crucial



Hydrologic Warning Systems

Funding Sources

➤ Federal

- US Army Corps Assistance to States
- FEMA Pre-Disaster, Flood Mitigation Assistance, Hazard Mitigation Grants

➤ State/Local

- State Flood Damage Reduction Grants
- County Stormwater Utility



Hydrologic Warning Systems

Useful References

- NWS Automated Flood Warning System Handbook
 - <http://www.weather.gov/oh/docs/alfws-handbook/>
- NWS Flood Warning Systems Directive
 - <http://www.weather.gov/directives/sym/pd01009041curr.pdf>
- NWS Flood Warning Systems Manual
 - <http://www.weather.gov/directives/sym/pd01009042curr.pdf>



Hydrologic Warning Systems Conclusions

- A HWS will increase situational “understanding” if:
 - It is well designed, maintained, and used properly
 - Everyone gets trained and practices
 - Everyone gets involved!



Q & A

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